

# FAME

Full-sky Astrometric Mapping Explorer

**Positions, Parallaxes, Proper  
Motions, and Photometry of  
40 Million Stars!**

2 kpc - distance within which the FAME error is <10%

- Contains >198 Cepheids
- Contains >147 RR Lyrae stars

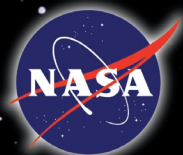
FAME will calibrate the luminosities of stars for studies of stellar structure and evolution

FAME will detect non-linear proper motions, indicating binary, brown dwarf, and giant planet companions

0.1 kpc - distance within which the Hipparcos error is <10%

FAME will study the kinematic properties of the stars in the galactic disk to determine the abundance of dark matter in the galactic disk

FAME will calibrate the absolute luminosities of standard candle stars that are the foundation of the distance scale to other galaxies, including the Magellanic Clouds



LOCKHEED MARTIN

